

Monmouth County



MONMOUTH

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1603 Dumont Terrace

1603 Dumont Terrace

Wall Township

Monmouth County

BLOCK: 261 **LOT:** 7

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Residential
OPERATION STATUS: Not Applicable

PROPERTY SIZE: 0.25 Acre

SURROUNDING LAND USE: Residential/Commercial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds

STATUS

Monitoring

Air

Volatile Organic Compounds

Monitoring

FUNDING SOURCES

Corporate Business Tax









AMOUNT AUTHORIZED

\$275,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Leaking underground gasoline storage tanks at Foster's Auto Service at 2402 Belmar Boulevard contaminated the soil and ground water with volatile organic compounds. The leaking tanks have been addressed and the contaminated soil removed. The owner is investigating the ground water with oversight of NJDEP's Responsible Party Remediation Element.

In 1998 the resident at 1603 Dumont Terrace reported strong gasoline odors in her basement. Analysis of water from the sump revealed high levels of benzene and methyl tertiary-butyl ether (MTBE). NJDEP's Remedial Response Element installed a new sump pump and drain system in the basement and a carbon treatment unit to remove the gasoline contaminants from the sump water before it is discharged to the sewer system. The Remedial Response Element subsequently determined that contaminated ground water from the Foster's Auto Service site had migrated to the home and was entering the basement through the sump. The Remedial Response Element is monitoring the ground water under the residence and maintaining the carbon treatment unit on the sump discharge.

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
IEC Action					 Planned
					 Underway
					 Completed
					 Not Required

Arky Property

217 Route 520

Marlboro Township

Monmouth County

BLOCK: 268 **LOT:** 79

CATEGORY: Non-Superfund
State Lead

TYPE OF FACILITY: Automobile Junk Yard
OPERATION STATUS: Active

PROPERTY SIZE: 22 Acres

SURROUNDING LAND USE: Residential

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds
Metals

STATUS

Delineated/Monitoring

Soil

Volatile Organic Compounds
Polychlorinated Biphenyls (PCBs)

Partially Removed/Delineated

FUNDING SOURCES

Spill Fund
1986 Bond Fund
Corporate Business Tax
General State Funds

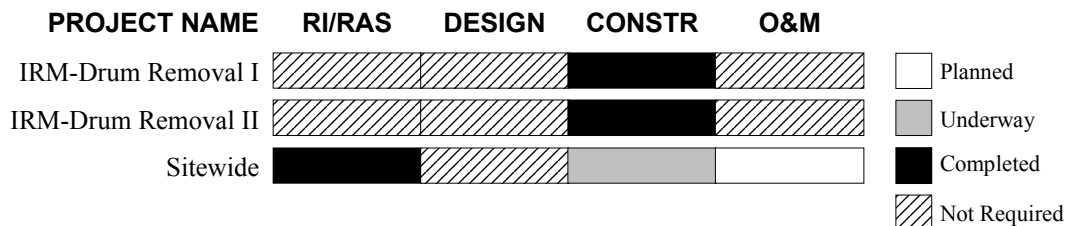
AMOUNT AUTHORIZED

\$30,000
\$336,000
\$967,000
\$126,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

The site encompasses 22 acres, seven of which are used as an automobile junk yard. A portion of the junk yard was once used to dump drums, sludges, liquid wastes, tires and other debris. In 1987 the Superior Court of New Jersey ordered NJDEP to conduct an investigation of the former disposal area to determine the scope of the contamination and cost to remediate the site. Between 1987 and 1991 NJDEP's Remedial Response Element implemented an Interim Remedial Measure (IRM) to remove 22 buried drums and conducted an initial investigation that confirmed the ground water at the site was contaminated. Sampling of nearby private potable wells conducted as part of the initial investigation showed they were not affected. The Superior Court of New Jersey issued a judgment against the Responsible Party in 1996 for 100% of the past costs incurred by the State.

Between 1998 and 2001 NJDEP implemented a second IRM to excavate and dispose of 70 buried drums of chemical wastes and approximately 1,000 cubic yards of contaminated soil and completed a Remedial Investigation and Remedial Action Selection (RI/RAS) for the site. The RI/RAS revealed that the surface soil within a 1.25-acre area of the junk yard is contaminated with polychlorinated biphenyls (PCBs) and the ground water at the site is contaminated with volatile organic compounds, including trichloroethylene (TCE) and methyl tertiary-butyl ether (MTBE). However, NJDEP concluded that there are no potable wells or other receptors downgradient of the site and that the volatile organic contamination in the ground water may diminish naturally through biodegradation. Based on these findings, NJDEP issued a Decision Document in 2002 that required excavation and disposal of approximately 2,000 cubic yards of PCB-contaminated soil and long-term monitoring of the ground water to confirm natural attenuation is occurring. NJDEP installed additional monitor wells near the site and long-term ground water monitoring began in June 2003. The soil removal received court approval in July 2003 and is scheduled to start in mid-2004.



Bog Creek Farm

Herbertsville Road

Howell Township

Monmouth County

BLOCK: 46 **LOT:** 29

CATEGORY: Superfund
Federal Lead

TYPE OF FACILITY: Illegal Dump
OPERATION STATUS: Inactive

PROPERTY SIZE: 12 Acres

SURROUNDING LAND USE: Agricultural/Recreational

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds

STATUS

Treating

Soil

Volatile Organic Compounds
Pesticides
Metals

Partially Remediated/Delineated

Sediments

Volatile Organic Compounds
Pesticides

Remediated

FUNDING SOURCES

AMOUNT AUTHORIZED

Superfund	\$31,630,000
Spill Fund	\$202,000
1981 Bond Fund	\$257,000
1986 Bond Fund	\$1,034,000
Hazardous Discharge Site Cleanup Fund	\$1,743,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Bog Creek Farm is located in an agricultural and recreational area. Allaire State Park is located within 1/2 mile of the site. The north branch of Squankum Brook forms the northern border of the site. A pond and a wetlands area (also known as the "bog") are near the northern border of the site. Between 1973 and 1974, solid and liquid chemical wastes and sludges were discharged to open areas and pits at a four-acre portion of the property. Approximately 2,400 cubic yards of wastes, including organic solvents, paint residues, disinfectants and general debris were reportedly disposed of in this manner. Chemicals migrated via the ground water to the pond, bog and Squankum Brook. In 1983 USEPA added Bog Creek Farm to the National Priorities List of Superfund sites (NPL). The site owner subsequently pumped the liquid wastes from the pits, transported the wastes to an approved off-site landfill and backfilled the pits.

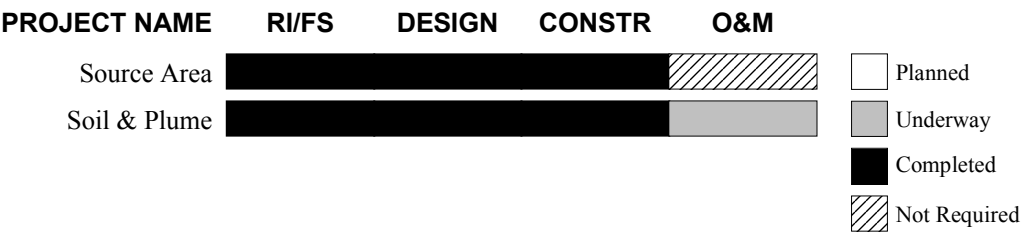
In 1983 USEPA began a Remedial Investigation and Feasibility Study (RI/FS) to delineate the contamination in the soil, ground water and sediments and evaluate cleanup alternatives. In 1985, based on the initial findings of the RI/FS, USEPA issued a Record of Decision (ROD) with NJDEP concurrence that required removal of the contaminated wastewater and sediments from the pond and bog, excavation of the buried wastes and contaminated soil, and incineration of the excavated materials. The ROD also required an evaluation of innovative technologies to address residual soil contamination and a monitoring program to assess the effectiveness of the remedial action. USEPA completed the soil and sediment remedial action in 1990. Approximately 15,500 cubic yards of contaminated soil and sediments were excavated, incinerated and backfilled on site during the cleanup.

USEPA also determined ground water at the site was contaminated with volatile organic compounds and contaminated sediments were present in Squankum Brook. In 1989, after completing the RI/FS, USEPA issued a second ROD with NJDEP concurrence that required installation of a remediation system to extract and treat the contaminated ground water and excavation and incineration of the contaminated brook sediments. Incineration of the contaminated sediments was completed in 1990 during the soil remedial action. USEPA completed construction of the ground water remediation system in 1994 and is operating and maintaining the system. More than a million gallons of ground water are extracted, treated and reinjected at the site each month.

USEPA recently delineated subsurface soil contamination that was not addressed during the soil cleanup and conducted a study to determine ways to optimize the effectiveness of the ground water remediation system. USEPA is using information gained from these studies to evaluate remedial options that could accelerate the ground water cleanup.

Bog Creek Farm

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Burnt Fly Bog

Texas & Spring Valley Roads

Marlboro Township

Monmouth County

BLOCK: 146 **LOT:** Upland Area: 47
Tar Patch: 7
N. Wetlands: 8
W. Wetlands: Various

CATEGORY: Superfund
State Lead

TYPE OF FACILITY: Waste Oil Storage
OPERATION STATUS: Inactive

PROPERTY SIZE: 1,700 Acres

SURROUNDING LAND USE: Undeveloped/Residential

MEDIA AFFECTED	CONTAMINANTS	STATUS
Surface Water (Wetlands)	Petroleum Hydrocarbons Volatile Organic Compounds Polychlorinated Biphenyls (PCBs) Lead	Delineated
Soil	Petroleum Hydrocarbons Volatile Organic Compounds Polychlorinated Biphenyls (PCBs) Lead	Partially Removed/Delineated
Sediment	Petroleum Hydrocarbons Volatile Organic Compounds Polychlorinated Biphenyls (PCBs) Lead	Delineated

FUNDING SOURCES	AMOUNT AUTHORIZED
Superfund	\$57,421,000
Spill Fund	\$2,219,000
1981 Bond Fund	\$32,000
1986 Bond Fund	\$884,000
General State Fund	\$898,000
Corporate Business Tax	\$2,487,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

The Burnt Fly Bog site is located on a ground water discharge area of the Englishtown aquifer, where ground water flows to the surface and drains into Deep Run, a nearby creek. During the 1950s and 1960s, waste oil was stored in several unlined lagoons encompassing a 10-acre area of the property. The lagoon area became known as the "Uplands." Waste oil from the Uplands eventually contaminated other areas, which became known as the "Northerly Wetlands," the "Tar Patch," and the "Westerly Wetlands." In addition, adjacent to the Westerly Wetlands is the "Downstream Area," where contaminated sediments that migrated from upgradient areas had settled in a stream bed. While the entire Burnt Fly Bog encompasses about 1,700 acres, the areas of contamination are limited to approximately 60 noncontiguous acres.

USEPA added Burnt Fly Bog to the National Priorities List of Superfund sites (NPL) in 1983. Later that year NJDEP completed a Remedial Investigation and Feasibility Study (RI/FS) and issued a Record of Decision (ROD) with USEPA concurrence that required remediation of the Uplands. NJDEP subsequently conducted several remedial actions in the Uplands, including the removal of waste referred to as the "Asphalt Pile," removal of lagoon liquids, excavation and off-site disposal of approximately 85,000 tons of contaminated soil, stabilization of sludge and installation of a clay cap over the area. Remediation of the Uplands area was completed in 1992, after NJDEP disposed of approximately 700 tons of stockpiled PCB-contaminated soil.

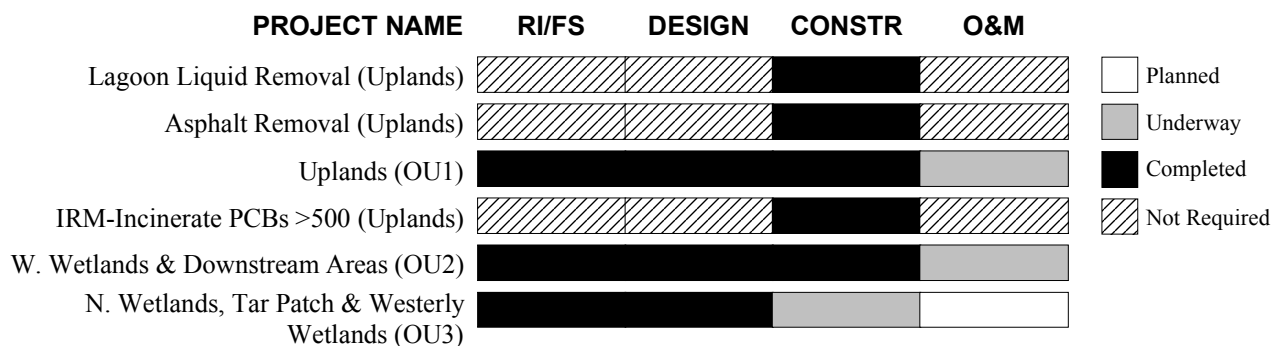
In 1988 NJDEP issued a ROD with USEPA concurrence for the Westerly Wetlands. The ROD required the evaluation of innovative technologies to address contaminated soils at this area, with interim measures to contain the contamination while the evaluations were being conducted. The interim measures included installation of a fence around the Westerly Wetlands, removal of contaminated soil and sediments from the Downstream Area, and installation of a sedimentation basin to prevent contaminated sediments from the Westerly Wetlands and other areas from migrating off site. In 1996 NJDEP completed excavation

Burnt Fly Bog

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and off-site disposal of approximately 6,000 tons of contaminated soil and sediments from the Downstream Area and construction of the sedimentation basin. NJDEP is maintaining the sedimentation basin and sampling the surface water and sediments in Burnt Fly Brook, which receives water from the basin, on a regular basis. Access to the Westerly Wetlands is being prevented by a security fence that was installed pursuant to the 1988 ROD.

In 1998, after completing a supplemental Feasibility Study for the site, USEPA signed a ROD with NJDEP concurrence for the Westerly Wetlands, Northerly Wetlands and the Tar Patch. The ROD required excavation and off-site disposal of contaminated soil from the Northerly Wetlands and the Tar Patch, followed by backfilling of these areas with clean materials and restoration of the wetlands. The ROD specified no action for the Westerly Wetlands except for long-term biological sampling to monitor the impact of the contaminants on wildlife. In 2003, after completing a Remedial Design for the project, NJDEP began excavating approximately 50,000 tons of contaminated soil from the Northerly Wetlands and the Tar Patch. NJDEP expects to complete the soil cleanup and wetlands restoration work at these two areas in the spring of 2004.



Imperial Oil Company Incorporated/Champion Chemical

Orchard Place Marlboro Township Monmouth County

BLOCK: 122 **LOT:** 29

CATEGORY: Superfund
State Lead

TYPE OF FACILITY: Oil Blending & Repackaging
OPERATION STATUS: Active

PROPERTY SIZE: 15 Acres

SURROUNDING LAND USE: Residential

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Volatile Organic Compounds Semi-Volatile Organic Compounds Petroleum Hydrocarbons Metals	Delineated
Sediments	Semi-Volatile Organic Compounds Petroleum Hydrocarbons Polychlorinated Biphenyls (PCBs) Metals	Delineated
Soil	Volatile Organic Compounds Petroleum Hydrocarbons Polychlorinated Biphenyls (PCBs) Metals	Partially Removed/Delineated

FUNDING SOURCES	AMOUNT AUTHORIZED
Superfund	\$22,173,000
Spill Fund	\$4,000
1981 Bond Fund	\$14,000
1986 Bond Fund	\$1,619,000
Corporate Business Tax	\$58,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This site has an extensive history of industrial operations dating to 1912. A chemical plant manufactured arsenic-containing compounds at the site in the early part of the century. In 1950 Champion Chemical Company acquired the property and converted it into an oil reclamation facility. Champion Chemical used filter clay and caustic solutions to remove heavy metals and PCBs from waste oil. Since 1969 the Imperial Oil Company has blended and repackaged unused oil at the site under a lease agreement with Champion Chemicals. USEPA added the Imperial Oil/Champion Chemicals property to the National Priorities List of Superfund sites (NPL) in 1983 after sampling showed that a large waste filter clay pile and the soil at the site were highly contaminated with petroleum hydrocarbons, heavy metals and PCBs.

In 1985 NJDEP began a Remedial Investigation (RI) to determine the nature and extent of the contamination at the site. The RI confirmed that both on-site and off-site soils had been contaminated by industrial operations at the facility. In addition, the RI revealed that the underlying Englishtown Aquifer was contaminated and a substantial volume of residual oil product was floating on the water table beneath the waste filter clay pile. Contamination was also found in the sediments of Birch Swamp Brook, which originates near the northeastern border of the site and drains into Lake Lefferts, approximately 1.25 miles away. Due to the size of the property and the complexity of the issues to be addressed, NJDEP has divided the investigation and remediation of the site into several Operable Units (OU): off-site soil that is contaminated with heavy metals and PCBs, and the contaminated sediments in Birch Swamp Brook (OU1); the contaminated ground water (OU2); and on-site soil contaminated with volatile organic compounds, petroleum hydrocarbons, heavy metals and PCBs (OU3). NJDEP performed separate Feasibility Studies (FS) for each OU to evaluate cleanup alternatives and selected the appropriate remedies as detailed below.

Off-site soil and sediments (OU1): In 1990 USEPA issued a Record of Decision (ROD) with NJDEP concurrence for OU1 that required installation of a fence around the off-site area to restrict access to contaminated soils, excavation and off-site disposal of contaminated soils and restoration of the affected wetlands. Soil sampling conducted in 1995 during the Remedial Design revealed an unanticipated sporadic pattern of arsenic contamination, some of which was detected at off-site residential properties.

Imperial Oil Company Incorporated/Champion Chemical

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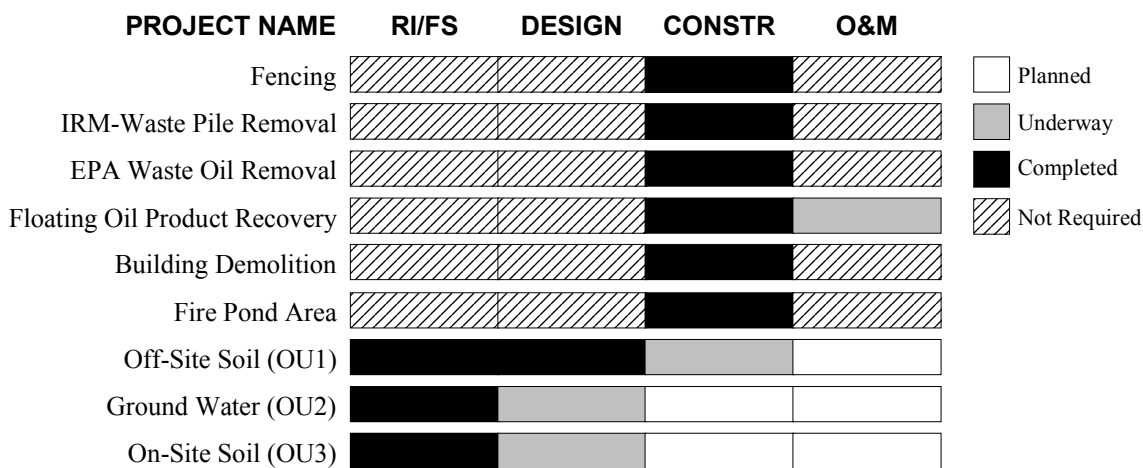
A study by the United States Geological Survey (USGS) concluded that there were multiple sources of the arsenic in the soil, including a minor contribution from natural background, historic application of arsenic-based pesticides and past industrial operations at the Imperial Oil site. The USGS study documented that the arsenic in the soil at four residential properties closest to the site was due to industrial operations. USEPA subsequently issued an Explanation of Significant Differences (ESD) to modify the OU1 ROD to include removal of the arsenic-contaminated soil from four residential properties. Remediation of the arsenic-contaminated soil at the four homes was completed in 1998.

In 1998, NJDEP conducted a Focused Feasibility Study (FFS) to determine the nature and extent of the sediment contamination in Birch Swamp Brook. NJDEP and USEPA concluded based on the findings of the FFS that sediments in the brook from the Fire Pond downstream to Texas Road were contaminated with elevated levels of PCBs and petroleum hydrocarbons. NJDEP also determined that soils at two residential properties located adjacent to Birch Swamp Brook and Texas Road were contaminated with arsenic at levels exceeding New Jersey cleanup criteria. USEPA and NJDEP issued a second ESD for the OU1 ROD in 2002 to add remediation of contaminated Birch Swamp Brook sediments and additional residential soil areas to the OU1 remedy. NJDEP completed the Remedial Design for all remedial components of OU1 in 2002 and cleanup activities began in late 2003.

Ground water (OU2): In 1992, after the FS for the ground water was completed, USEPA issued a ROD with NJDEP concurrence that required installation of an on-site remediation system to extract and treat the contaminated ground water. After a comprehensive investigation to determine the extent of arsenic in the ground water, NJDEP modified the scope of the Remedial Design to address a smaller contaminant plume that is limited to the site boundary. The Remedial Design for the ground water remediation system is scheduled to be completed in 2004.

On-site soil (OU3): In 1999, after the FS for the on-site contaminated soil was completed, USEPA issued a ROD with NJDEP concurrence for OU3. The ROD required excavation and off-site disposal of an estimated 80,000 cubic yards of contaminated soil and waste pile material and the off-site disposal of 5,000 gallons of oil product recovered from the site. NJDEP is conducting the Remedial Design for OU3.

Interim Remedial Measures: In addition to the work performed by NJDEP to investigate and remediate the three identified Operable Units, USEPA has also implemented four Interim Remedial Measures (IRM) at the site: removal of the heavily contaminated waste filter clay pile in 1991, installation of a recovery system to extract the oil-like floating product layer from the ground water in 1992; demolition and disposal of a dilapidated four-story building in 2000; and removal of contaminated waste material in the wooded area adjacent to Fire Pond in 2002. The floating oil recovery system is currently operating under the supervision of NJDEP. To date, approximately 21,000 gallons of oil have been recovered by the floating oil recovery system and disposed of at an off-site facility.



Magnolia Avenue Ground Water Contamination

Various Locations Wall Township & Sea Girt & Manasquan Boroughs Monmouth County

BLOCK: Various **LOT:** Various

CATEGORY: Non-Superfund
State Lead

TYPE OF FACILITY: Not Applicable
OPERATION STATUS: Not Applicable

PROPERTY SIZE: Not Applicable

SURROUNDING LAND USE: Residential/Commercial

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Tetrachloroethylene Trichloroethylene	Delineating
Surface Water	Tetrachloroethylene	Delineating
Soil	Tetrachloroethylene Trichloroethylene	Partially Removed/Investigating
Air	Tetrachloroethylene	Delineating/Venting

FUNDING SOURCES

AMOUNT AUTHORIZED

Spill Fund	\$10,000
Corporate Business Tax	\$450,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This case is also known as the White Swan Cleaners Ground Water Contamination site and the Wall Township Ground Water Contamination site. In 1998 the Monmouth County Health Department (MCHD) discovered several irrigation wells on Magnolia Avenue in Wall Township were highly contaminated with chlorinated volatile organic compounds. The primary contaminant was tetrachloroethylene (also known as perchloroethylene, or PCE), although lower levels of trichloroethylene (TCE) were also found. PCE is common dry cleaning solvent and TCE is typically used as a degreasing agent.













In 1999 MCHD and NJDEP's Remedial Response Element conducted a study to delineate the PCE contamination in the ground water and evaluate the risk to Sea Girt's municipal supply wells. The study revealed a shallow plume of contaminated ground water extended eastward from Route 35 in Wall Township into Sea Girt Borough and a small part of northern Manasquan Borough. It also revealed there were low levels of PCE in the surface water in part of Wreck Pond. The federal Agency for Toxic Substances and Disease Registry (ATSDR) evaluated the ground water sampling results and concluded it was safe to use for irrigation. MCHD and NJDEP determined water from Sea Girt's municipal supply wells met New Jersey Drinking Water Standards; however, Sea Girt Borough installed a treatment system at the well field as a precautionary measure. There are no private potable wells at risk of becoming contaminated due to this site.

In 2001 NJDEP identified two former dry cleaning establishments and a gas station in Wall Township as likely sources of the ground water contamination. Extensive soil and ground water contamination was confirmed at the former White Swan Dry Cleaners on Sea Girt Avenue (now a bank). These findings prompted NJDEP to test the indoor air nearby residences and a commercial business for PCE vapors. The testing revealed the indoor air at several adjacent buildings had significantly elevated levels of PCE vapors and the indoor air at more distant properties had low levels of PCE vapors. The bank removed 820 cubic yards of contaminated soil from its property and backfilled the excavation with clean soil with oversight of NJDEP's Responsible Party Remediation Element. The Potentially Responsible Parties for the two other suspected sources, the former Sun Cleaners and a service station on Route 35, have not conducted any investigative or cleanup work.

In 2002 USEPA began addressing the Magnolia Avenue Ground Water Contamination site under its Removal Program. USEPA is testing indoor air at residential and commercial properties, installing subsurface depressurization systems at properties with high levels of PCE vapors, and investigating Sun Cleaners and the gas station. USEPA has tested the indoor air at more than 250 properties in Wall Township, Sea Girt Borough and Manasquan Borough and installed subsurface depressurization systems at nine of these properties. NJDEP installed subsurface depressurization systems at 18 buildings where lower levels of PCE vapors were confirmed. Monitoring and maintenance of these systems is underway. NJDEP delineated the shallow ground water contamination in 2003 and this information will be used to plan future indoor air testing. USEPA proposed adding this site to the National Priorities List of Superfund sites (NPL) in April 2003.

Magnolia Avenue Ground Water Contamination

(Continued from previous page)

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
IRM-Home Ventilation Systems					 Planned
Sitewide					 Underway
					 Completed
					 Not Required

Monitor Devices Incorporated

Route 34 (Airport Access Road)

Wall Township

Monmouth County

BLOCK: 799 **LOT:** 13

CATEGORY: Superfund
Federal Lead

TYPE OF FACILITY: Electronics Manufacturing
OPERATION STATUS: Inactive

PROPERTY SIZE: 2.0 Acres

SURROUNDING LAND USE: Commercial/Industrial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds
Metals

STATUS

Further Delineation Required

Soil

Volatile Organic Compounds
Metals

Delineated

FUNDING SOURCES

Superfund
General State Fund

AMOUNT AUTHORIZED

\$1,200,000
\$396,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Monitor Devices operated a metals plating and circuit board manufacturing facility at this site between 1977 and 1981. The property is currently occupied by a furniture business. In 1980, during an inspection by the Monmouth County Health Department, two discharge pipes were noted at the rear of the main building. Sampling conducted by NJDEP revealed that the soil and ground water near the pipes were contaminated with solvents, acids and heavy metals. In addition, drums and other containers that were stored outdoors were in poor condition. The high permeability of the soil and the shallow ground water table created a potential route for contaminants to enter the underlying aquifers. NJDEP ordered Monitor Devices to investigate the contamination at the site and take appropriate remedial actions but the company did not comply. Monitor Devices ceased operations in 1981 and subsequently declared bankruptcy.

In 1986 USEPA added the Monitor Devices facility to the National Priorities List of Superfund sites (NPL) and NJDEP began a Remedial Investigation and Feasibility Study (RI/FS) to determine the nature and extent of the contamination and evaluate cleanup alternatives. NJDEP completed Phase I of the RI in 1989. USEPA is currently conducting a Phase II RI to further delineate the ground water contamination and a Focused Feasibility Study (FFS) for an interim soil remedial action. USEPA has concluded the contamination at the site does not present an immediate risk to human health or the environment.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Sitewide					
					<input type="checkbox"/> Planned
					<input checked="" type="checkbox"/> Underway
					<input type="checkbox"/> Completed
					<input type="checkbox"/> Not Required

Sal's Auto Repairs

68 West Sylvania Avenue

Neptune City

Monmouth County

BLOCK: 6H **LOT:** 21

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Auto Repair Facility
OPERATION STATUS: Active

PROPERTY SIZE: 0.5 Acre

SURROUNDING LAND USE: Commercial/Residential

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds

STATUS

Remediating

Soil

Volatile Organic Compounds

Confirmed

Air

Volatile Organic Compounds

Venting

FUNDING SOURCES

1981 Bond Fund

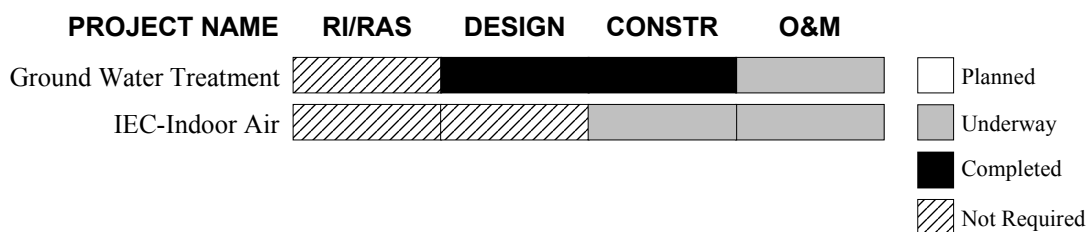
AMOUNT AUTHORIZED

\$208,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Sal's Auto Repair formerly operated as a gasoline service station. The service station owner removed several leaking underground gasoline storage tanks in 1993 with oversight of NJDEP's Responsible Party Remediation Element. A preliminary investigation conducted after the tanks were removed indicated soil and ground water were significantly contaminated with volatile organic compounds. NJDEP directed the service station owner to investigate and clean up the site, but the owner did not comply. In 2003 NJDEP's Remedial Response Element installed ground water remediation systems at the Sal's Auto Repair site and at a property across the street to treat a plume of contaminated ground water from the site. NJDEP believes another gas station in the area may also be contributing to the ground water plume.

In 2003 the Remedial Response Element also began an investigation to determine whether gasoline vapors from the ground water plume were migrating into neighboring buildings through the slabs and foundations and contaminating the indoor air. Testing of the indoor air at eight nearby properties identified one building with gasoline vapors at levels exceeding NJDEP's health-based criteria. The Remedial Response Element installed a subsurface depressurization system at the building and took other measures to reduce the vapors to acceptable levels. Additional indoor air testing will be conducted in 2004 to determine whether other buildings in the area are affected.



Waldick Aerospace Devices Incorporated

2121 Route 35

Wall Township

Monmouth County

BLOCK: 733 **LOT:** 5

CATEGORY: Superfund
Federal Lead

TYPE OF FACILITY: Machinery Manufacturing
OPERATION STATUS: Inactive

PROPERTY SIZE: 1.72 Acres

SURROUNDING LAND USE: Commercial

MEDIA AFFECTED

Ground Water

CONTAMINANTS

Volatile Organic Compounds
Metals

STATUS

Delineated/Monitoring

Soil

Volatile Organic Compounds
Petroleum Hydrocarbons
Acids
Metals

Treated/Removed

FUNDING SOURCES

Superfund
1981 Bond Fund

AMOUNT AUTHORIZED





\$14,275,000
\$600,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Waldick Aerospace Devices manufactured mechanical parts for spacecrafts at this site from 1979 to 1985. During the first three years of operation, contaminated wastewater and waste oil were discharged directly onto the ground at the facility. Sampling conducted by local officials and NJDEP between 1982 and 1984 confirmed the ground water was contaminated with metals and volatile organic compounds, and the contamination had migrated off site. These findings prompted USEPA to add Waldick Aerospace Devices to the National Priorities List of Superfund sites (NPL) in 1986. The company has filed for bankruptcy.

In 1987 USEPA completed an initial Remedial Investigation and Feasibility Study (RI/FS) for the site and signed a Record of Decision (ROD) with NJDEP concurrence that required in-situ treatment of the organic-contaminated soil and excavation and off-site disposal of one area of metals-contaminated soil. The ROD also required a supplementary RI/FS to evaluate the extent of the ground water contamination. However, the soil remedy did not conform to federal regulations for disposal of hazardous materials that were promulgated after the ROD was signed. In addition, although USEPA concluded based on the RI/FS that the soil contaminated with volatile organic compounds and petroleum hydrocarbons was divided into two discrete areas according to the presence or absence of metals, sampling performed during the Remedial Design indicated that both areas were contaminated with metals. Based on this finding, USEPA modified the ROD in 1991 to require on-site thermal treatment to remove organic compounds from the soil and off-site treatment and disposal of the metals-contaminated soil. USEPA demolished two of the buildings and completed the soil remedial action in 1993.

In 1991, after completing the supplementary RI/FS, USEPA signed a second ROD with NJDEP concurrence that required installation of a ground water remediation system to extract and treat the off-site contaminated ground water. However, sampling conducted during the Remedial Design showed significantly reduced levels of contaminants in the ground water. USEPA is performing additional ground water monitoring to evaluate contaminant trends. If the monitoring indicates the contaminant plume is dissipating, USEPA may revise the ground water remedy specified in the 1991 ROD.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Soil					 Planned
Ground Water-Plume					 Underway
					 Completed
					 Not Required

William Hurley Industrial Complex

Lakewood-Farmingdale Road

Howell Township

Monmouth County

BLOCK: 49 **LOT:** 30-33, 38, 44, 45, 46-50
221 4
222 15 & 16
223 2

CATEGORY: Non-Superfund
State Lead, IEC

TYPE OF FACILITY: Electronics Manufacturing
OPERATION STATUS: Active

PROPERTY SIZE: 212 Acres

SURROUNDING LAND USE: Residential/Industrial/Commercial

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Volatile Organic Compounds Metals	Delineating
Potable Water	Volatile Organic Compounds	Treating
Soil	Volatile Organic Compounds Metals	Delineating
Surface Water	Volatile Organic Compounds Metals	Investigating
Sediments	Volatile Organic Compounds Metals	Investigating
Building Interiors	Volatile Organic Compounds Metals	Investigating

FUNDING SOURCES	AMOUNT AUTHORIZED
Spill Fund	\$80,000
1981 Bond Fund	\$6,000
Responsible Party Settlement Fund	\$281,000
Corporate Business Tax	\$1,343,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This site is also known as Frequency Engineering Laboratories Inc. It is located in the William Hurley Industrial Complex on Central Avenue, a small road that intersects with Lakewood-Farmingdale Road. Marsh Bog Brook flows northwest of the complex. Frequency Engineering began manufacturing electronic military hardware at the complex in 1964. For approximately 25 years, until 1989, the company discharged rinse waters from its metals plating operations into a drainage ditch behind the facility. Sampling conducted by Frequency Engineering in 1996 indicated the discharges had contaminated the soil and ground water with volatile organic compounds and metals. The following year, Frequency Engineering entered into a Memorandum of Agreement (MOA) in which it agreed to investigate and remediate the contamination with NJDEP oversight.

In 1999 trichloroethylene (TCE), a volatile organic compound, was detected in a private potable well at a downgradient commercial facility and Frequency Engineering was identified as the likely source of the contamination. A Point-of-Entry Treatment (POET) system was installed on the well with funds provided by NJDEP to supply potable water for the occupants. NJDEP and the Monmouth County Health Department sampled additional nearby private potable wells but did not find any others that were contaminated with volatile organic compounds at levels exceeding New Jersey Drinking Water Standards.

In 2000 Frequency Engineering declared bankruptcy. NJDEP terminated the MOA the following year after the company indicated it would no longer implement the work specified in the agreement. NJDEP's Remedial Response Element began a Remedial Investigation/Remedial Action Selection (RI/RAS) in 2002 to delineate the contamination at the site and evaluate remedial alternatives. The RI/RAS will include sampling of the soil, ground water, surface water, sediments, building interiors and septic systems. The work is being partly funded with \$280,000 that NJDEP received from the bankruptcy settlement.

William Hurley Industrial Complex

(Continued from previous page)

PROJECT NAME	RI/RAS	DESIGN	CONSTR	O&M	
Sitewide					<div><div></div>Planned</div> <div><div></div>Underway</div> <div><div></div>Completed</div> <div><div></div>Not Required</div>

Zschiegner Refining Company

1442 Maxim Southard Road

Howell Township

Monmouth County

BLOCK: 36 **LOT:** 23

CATEGORY: Superfund
Federal Lead

TYPE OF FACILITY: Metals Recovery
OPERATION STATUS: Inactive

PROPERTY SIZE: 6.1 Acres

SURROUNDING LAND USE: Residential/Rural

MEDIA AFFECTED	CONTAMINANTS	STATUS
Soil	Metals	Delineating
Surface Water	Metals	Delineating
Sediments	Metals	Delineating
Ground Water	Metals	Delineating

FUNDING SOURCES	AMOUNT AUTHORIZED
Superfund	\$1,640,000
Spill Fund	\$6,000

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Zschiegner Refining Company operated a precious metals recovery facility between 1964 and 1992. Operations included using chemicals to strip precious metals from watch bands, film and electrical components. Haystack Brook, its wetlands and a tributary of Haystack Brook flow through the property. In 1992 the facility was raided by the Federal Drug Enforcement Agency for illegally manufacturing methamphetamine. Authorities discovered approximately 3,000 different chemicals were being improperly stored at the site, including acids, caustics and potentially explosive and reactive compounds.

In 1992 USEPA began a preliminary investigation to assess environmental conditions at the site. USEPA also implemented an interim removal action, repackaging and disposing of approximately 2,000 gallons of acidic solutions, 1,600 gallons of basic solutions and 1,400 small containers of hazardous substances between 1992 and 1993. Sampling performed during the preliminary investigation indicated the soil, surface water and sediments at the property were contaminated with metals. Based on these findings, USEPA added the Zschiegner property to the National Priorities List of Superfund sites (NPL) in 1998. Later that year, USEPA began a Remedial Investigation and Feasibility Study (RI/FS) to delineate the contamination in the soil, ground water, surface water and sediments and evaluate cleanup alternatives. Sampling of nearby private potable wells conducted in 1998 did not reveal contamination at levels exceeding New Jersey Drinking Water Standards. USEPA will use the findings of the RI/FS to select the final remedial actions for the site, which will be outlined in a Record of Decision (ROD).

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M
Sitewide				

Planned

Underway

Completed

Not Required